

Future Protected Bike Lane Network for Honolulu

Department of Transportation Services
City & County of Honolulu

Public Meeting – Neal Blaisdell Center September 1, 2015

King Street Protected Bike Lane

- OpenedDecember2014
- Opened as one-way in the Diamond Head direction
- 2 year pilot project







Changes Since the Opening

- Converted to two-way in May 2015
- Installed bike signals for Ewabound bicyclists
- Installed "Look Both Ways For Bikes" signs at driveways
- Removed 11 parking stalls near driveways to increase visibility for both motorists and bicyclists
- Added AM peak parking restriction between Kealamakai St and Ward Ave to help ease morning congestion

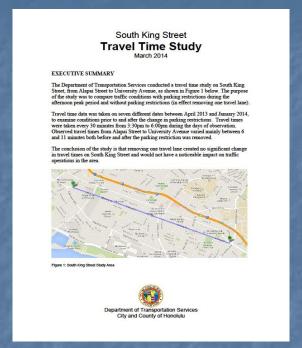


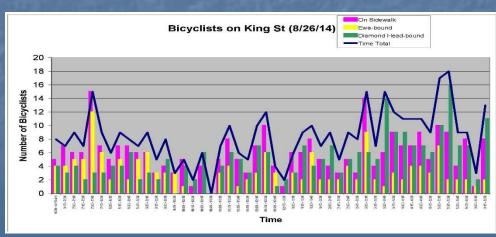




Studies and Data Gathering

- Gathering data throughout pilot period
- Before and After Bicycle Counts
- Before and After Motor Vehicle Travel Times
- Before and after Traffic Volume Counts





Manual Bicycle Counts

- Count bicyclists in the public right-of-way (including sidewalks)
- Direction: Ewa or Diamond Head
- Facility: Sidewalk, Travel Lane, or Bike Lane
- 12 hours (6:30 a.m. to 6:30 p.m.) in 15 minute increments
- Other users of the bike lane





Traffic Camera

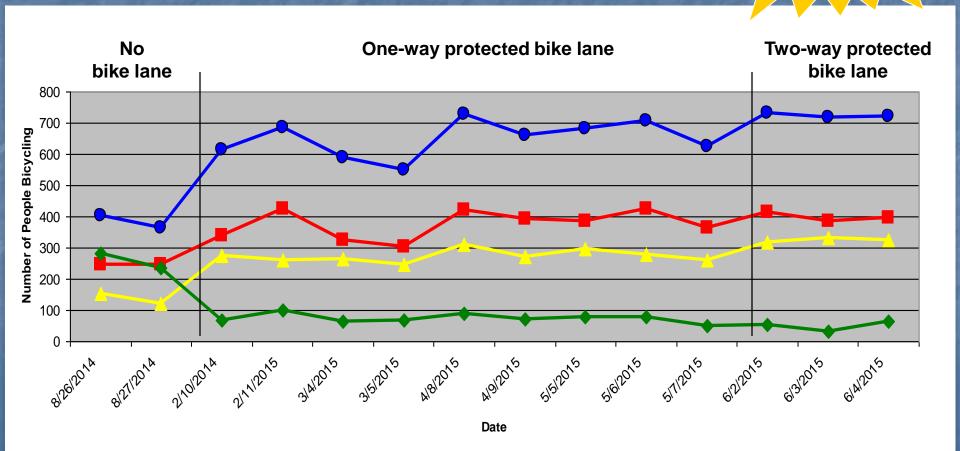
On-site

Results for South King Street

at Kalākaua Avenue

12 Hour Total Ridership
DH Bound
Ewa Bound
Sidewalk Ridership

88%
Increase in bicycle ridership



Where are people riding?

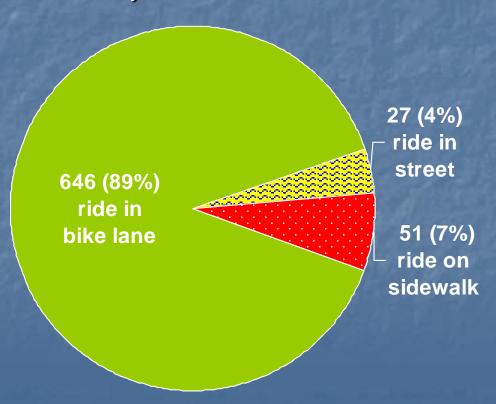
Before No bike lane





After

Two-way protected bike lane 724 bicyclists / 12 hours



Screen line counts 7 Locations

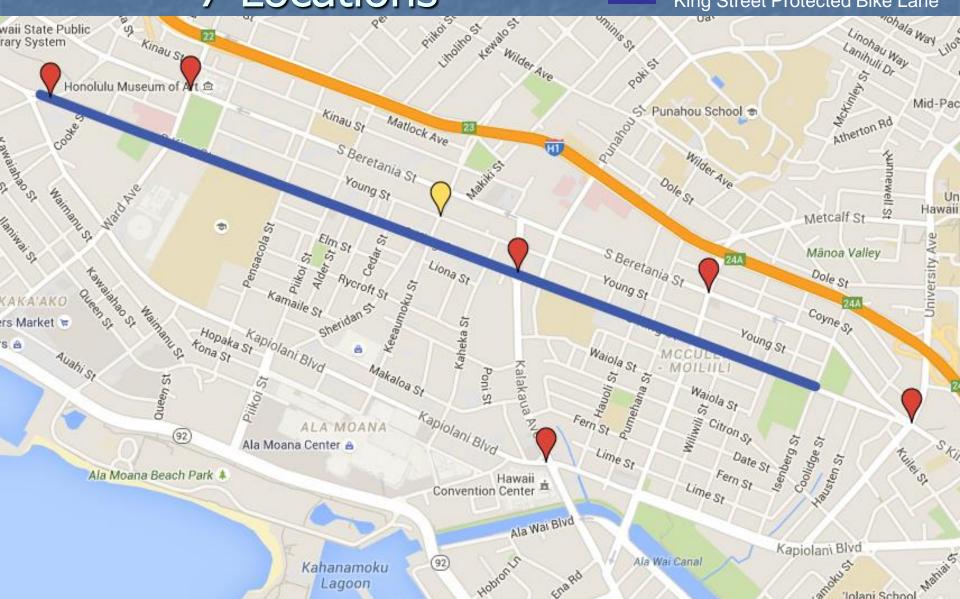


Traffic Camera



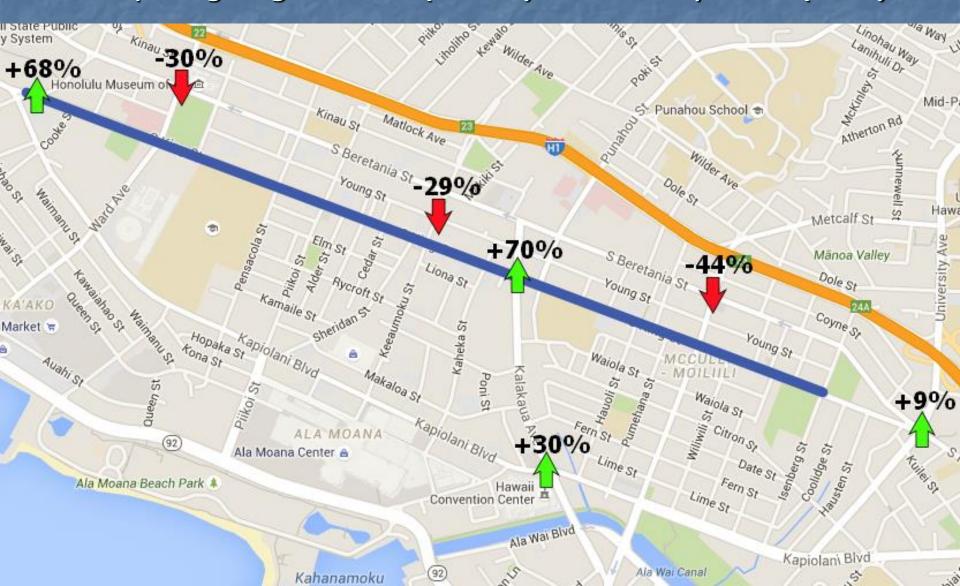
On-site

King Street Protected Bike Lane



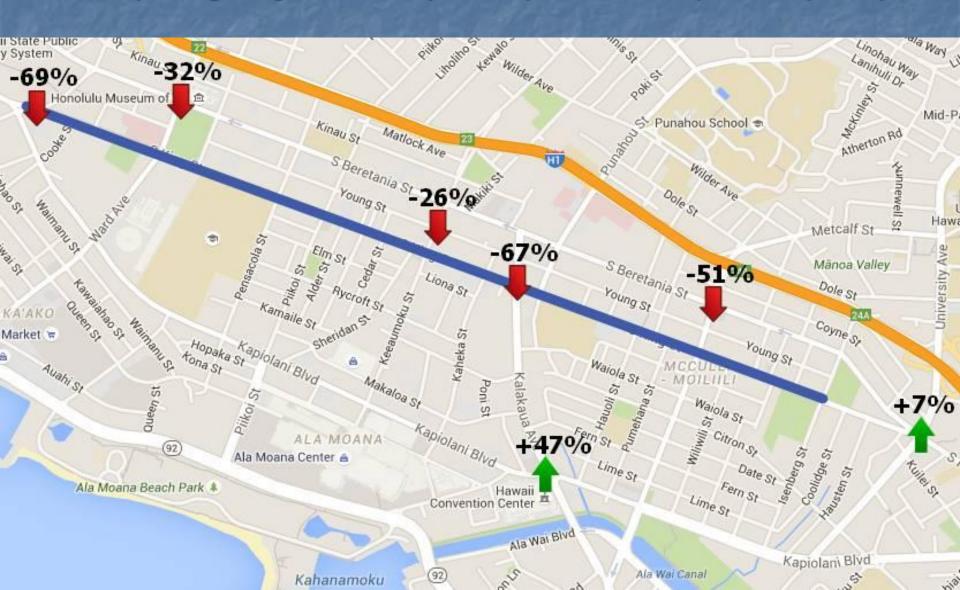
Screen Line Results

Comparing August 2014 (before) to February 2015 (after)



Screen Line Sidewalk Ridership

Comparing August 2014 (before) to February 2015 (after)

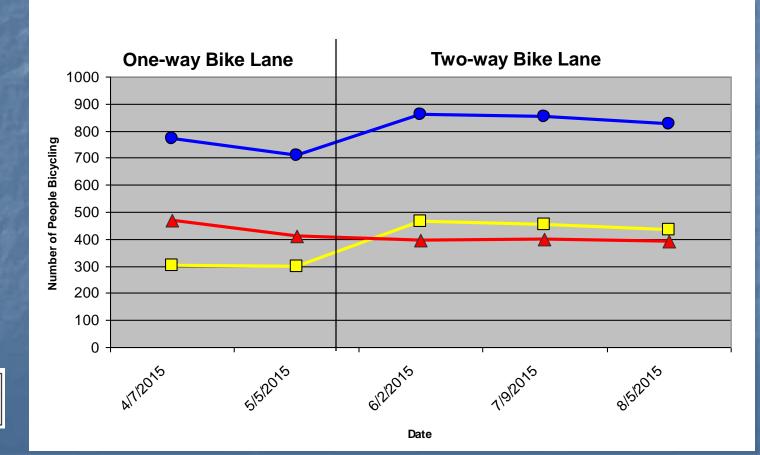


Automatic Bicycle Counts Tube Counters

- Count bicyclists riding in the bike lane on King Street
- Direction: 'Ewa bound or Diamond Head bound
- 12 hour (6:30 a.m. to 6:30 p.m.)
- 24 hour (6:30 a.m. to 6:30 a.m.)
- 15 minute increments
- Bicycle speeds

Automatic Count Results 24 hour counts in the bike lane

Date	Bike Lane	24 Hour Total Ridership	Ewa Bound	DH Bound
4/7/2015	One-way	772	302	470
5/5/2015	One-way	711	300	411
6/2/2015	Two-way	859	465	394
7/9/2015	Two-way	852	454	398
8/5/2015	Two-way	826	435	391





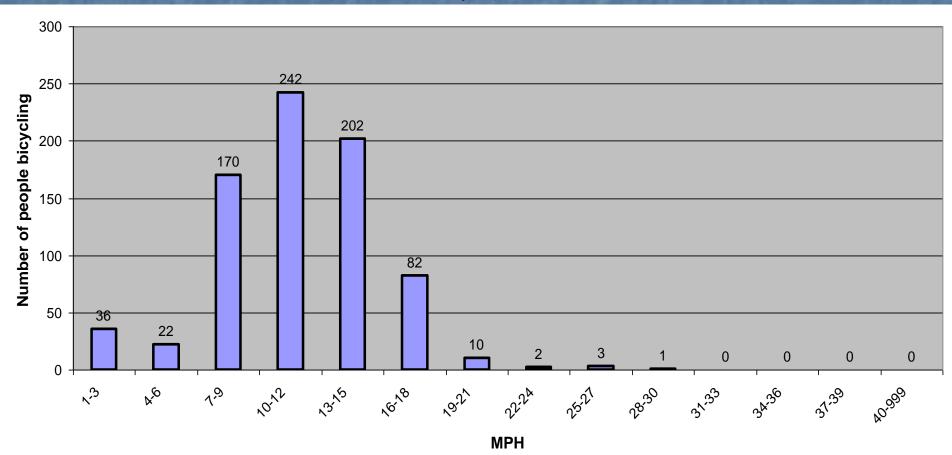
Bicycle Speed Results

Average Speed: 12 MPH

85th Percentile: 15 MPH

Speed Distribution

for April 7, 2015



Vehicle Travel Time Study

- South King Street from South Street to University Avenue.
- Results are an average of travel time runs done over multiple days.
- BEFORE construction runs were conducted in April 2013.
- AFTER construction runs were conducted in Jan, Feb, & Apr 2015.

Time	Before (min:sec)	After (min:sec)	Time Difference (min:sec)
3:30 PM	6:16	7:25	+ 1:09
4:00 PM	6:15	6:53	+ 0:38
4:30 PM	7:28	7:56	+ 0:28
5:00 PM	9:41	10:19	+ 0:38
5:30 PM	10:06	9:48	- 0:18
6:00 PM	7:03	7:27	+ 0:24
AVERAGE	7:48	8:18	+ 0:30

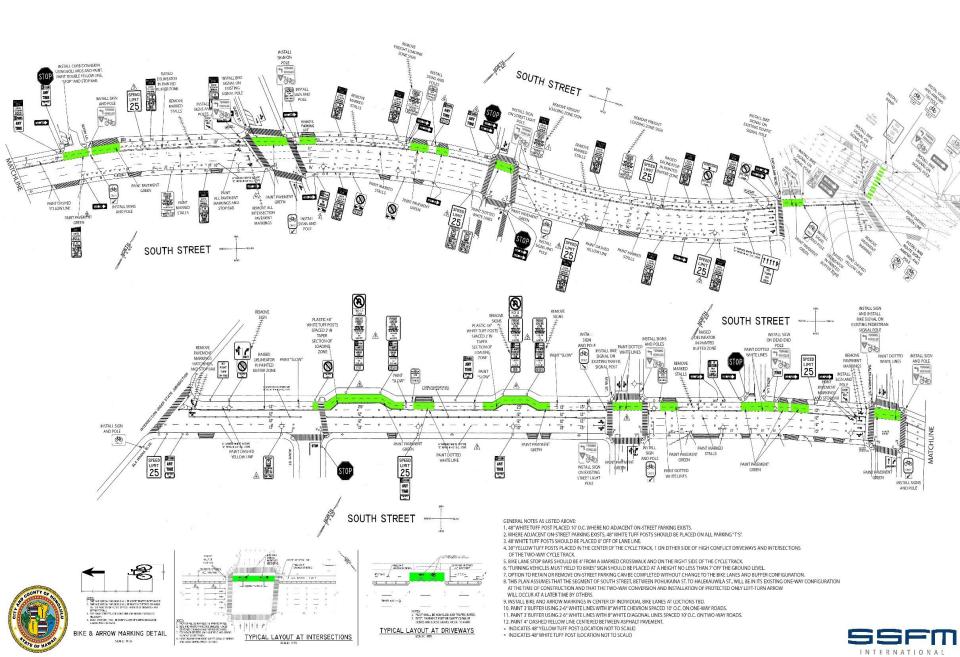
Future Projects



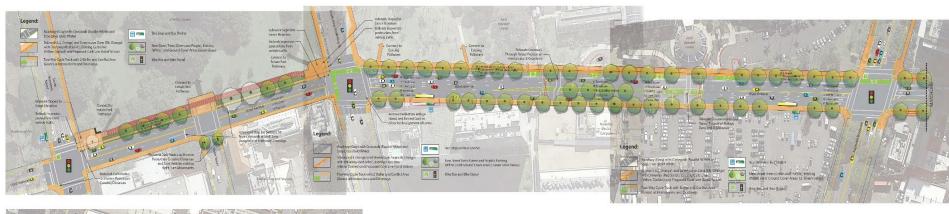
Mauka/Makai Routes

- Focus is to connect to the King Street protected bike lane to create a network
- Many routes will also connect to future rail stations
- Goal is to construct next protected bike lane by the end of 2015

SOUTH STREET TWO-WAY PROTECTED BIKE LANES PILOT PROJECT



WARD AVENUE COMPLETE STREET CONCEPTUAL DESIGN









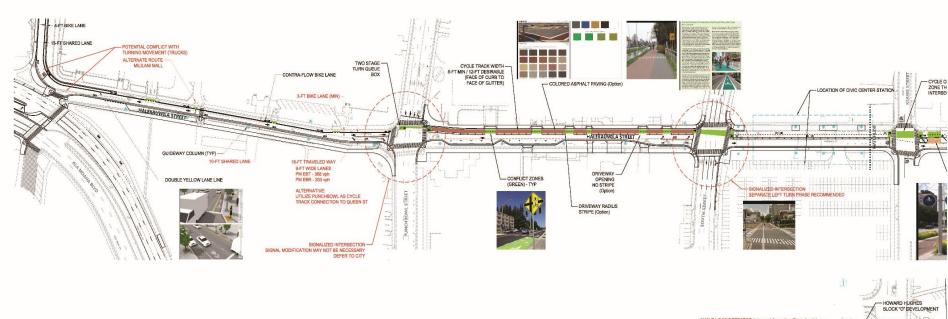
McCully Street Bike Lanes

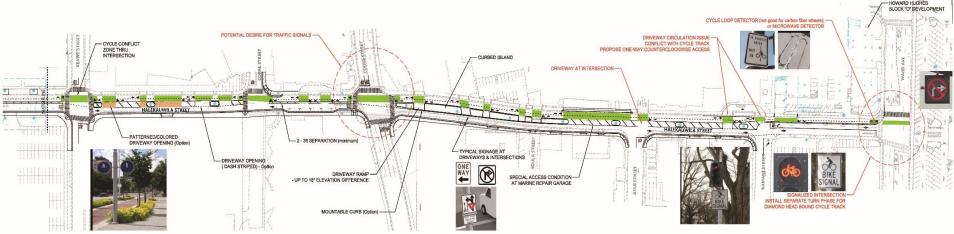
- Connection from Waikiki to the King Street protected bike lane and the UH-Manoa Area
- Limited ROW allows for conventional bike lanes

McCully Street



HALEKAUWILA STREET PROTECTED BIKE LANES CONCEPTUAL DESIGN



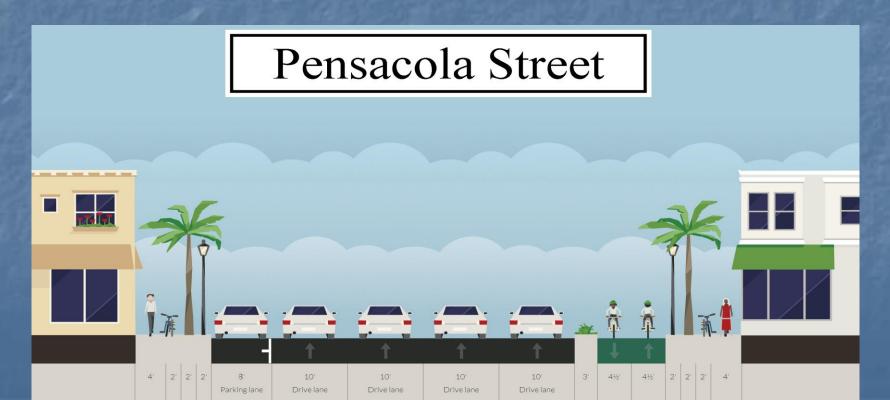






Pensacola Street Bikeway

- Connection from the King Street bikeway to Ala Moana Blvd
- To be implemented with the Department of Design and Construction's resurfacing project
- Design treatment is yet to be determined





Mahalo!



Honolulu Bicycle Program